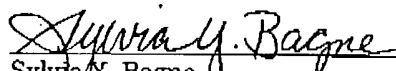


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PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Sylvia Y. Bagne

Applicant : Kalu K. Vasoya, et al.  
Application No. : 10/020,506  
Filed : December 11, 2001  
Title : LIGHTWEIGHT CIRCUIT BOARD WITH  
CONDUCTIVE CONSTRAINING CORES  
Grp./Div. : 1775  
Examiner : Ling X. Xu  
Docket No. : 47490/RAG/S968

INFORMATION DISCLOSURE STATEMENT WITH FEE  
UNDER 37 CFR §§ 1.97(c) and 1.17(p)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Post Office Box 7068  
Pasadena, CA 91109-7068  
June 10, 2003

Commissioner:

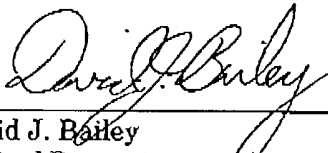
In compliance with the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, and in accordance with the provisions in the Manual of Patent Examining Procedure §§ 609 and 707.05(b), enclosed is FORM PTO/SB/08A/B listing the references that are known to applicant. Copies of each of the listed references are enclosed.

It is respectfully requested that the listed references be considered in the examination of this application and identified on the list of references cited on the patent issuing for this application. Applicant also requests that an initialed copy of FORM PTO/SB/08A/B be entered in the application file and returned to applicant with the next communication from the Office in accordance with MPEP § 609.

**Application No. 10/020,506**

Enclosed is the processing fee of \$180 as required by 37 CFR §1.17(p). The Commissioner is hereby authorized to charge any fees which may be required by this paper to Deposit Account No. 03-1728. Please show our docket number with any Deposit Account transaction. **A copy of this paper is enclosed.**

Respectfully submitted,  
CHRISTIE, PARKER & HALE, LLP

By   
David J. Bailey  
Limited Recognition Under 37 CFR 10.9(b)  
626/795-9900

DJB/syb  
Enclosures: Check \$180  
Copy of IDS  
PTO/SB/08A/B, w/references  
SYB IRV1066370.1 \* 6/10/03 2:28 PM

FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B  <b>INFORMATION DISCLOSURE</b>  <b>STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	Attorney Docket Number	47490/DJB/S968
	Application Number	10/020,506
	Filing Date	December 11, 2001
	Applicant(s)	Kalu K. Vasoya, et al.
	Group Art Unit	1775
	Examiner Name	Ling X. Xu

U.S. PATENT DOCUMENTS				
EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - kind code <sup>2</sup> (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
		4,318,954	03-09-1982	Jensen
		4,591,659	05-27-1986	Leibowitz
		4,689,110	08-25-1987	Leibowitz
		4,812,792	03-14-1989	Leibowitz

FOREIGN PATENT DOCUMENTS					
EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	<sup>7</sup> ..( )

OTHER DOCUMENTS		
EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

EXAMINER SIGNATURE	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at www.pto.gov or MPEP 901.4. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.	

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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SYB IRV1066878.1\*-6/10/03 3:02 PM

BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE  
UNITED STATE PATENT AND TRADEMARK OFFICE

LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)

David J. Bailey is hereby given limited recognition under 37 CFR § 10.9(b) as an employee of Christie, Parker & Hale LLP to prepare and prosecute patent applications wherein the patent applicant is a client of Christie, Parker & Hale LLP, and the attorney or agent of record in the applications is a registered practitioner who is a member of Christie, Parker & Hale LLP. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) David J. Bailey ceases to lawfully reside in the United States, (ii) David J. Bailey's employment with Christie, Parker & Hale LLP ceases or is terminated, or (iii) David J. Bailey ceases to remain or reside in the United States on an H-1 visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

Expires: August 15, 2003



Harry I. Moatz  
Director of Enrollment and Discipline

PLEASE SIGN AND RETURN TO ACKNOWLEDGE RECEIPT

Title **LIGHTWEIGHT CIRCUIT BOARD WITH  
CONDUCTIVE CONSTRAINING CORES**

SERIALIZED No: **10/020,506**

Filed/CLASS : **December 11, 2001**

Assigned Enclosed (List Assignee)

Client ID **5968**

Case No **47490**

Atty/Sec **DJB/syb**

Date Mailed **June 10, 2003**

Date Due **July 9, 2003**

Cert of Mailing **First Class**

Express Mail No.

DOCUMENT TITLE: **AMENDMENT IN RESPONSE**  
(List enclosures) **TO OFFICE ACTION**

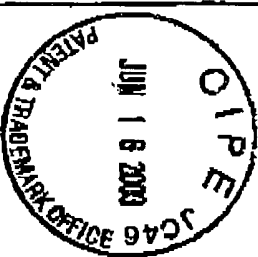
Information Disclosure Statement with

Yes  
Form PTO/SB/DBA/B  
References (4)  
Check: \$180.00  
Limited Recognition Document  
Amendment (Transmittal)

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ACKNOWLEDGE HERE

Checked by:

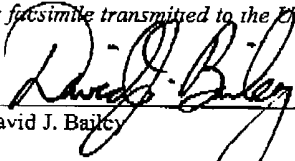


REV 1/93 FORM P2

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

*I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office on August 19, 2004.*

  
 \_\_\_\_\_  
 David J. Bailey

Applicant	: Kalu K. Vasoya, et al.	Confirmation No. 8703
Application No.	: 10/020,506	
Filed	: December 11, 2001	
Title	: LIGHTWEIGHT CIRCUIT BOARD WITH CONDUCTIVE CONSTRaining CORES	
Grp./Div.	: 1775	
Examiner	: Ling X. Xu	
Docket No.	: 47490/DJB/S968	

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT WITH FEE  
UNDER 37 CFR §§ 1.97(d) AND 1.17(p)**

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Post Office Box 7068  
 Pasadena, CA 91109-7068  
 August 19, 2004

Commissioner:

In compliance with the duty of disclosure under 37 CFR §§ 1.56, 1.97 and 1.98, and in accordance with the provisions in the Manual of Patent Examining Procedure §§ 609 and 707.05(b), enclosed is FORM PTO/SB/08A/B listing the references that are known to applicant. Copies of each of the listed references are enclosed.

It is respectfully requested that the listed references be considered in the examination of this application and identified on the list of references cited on the patent issuing for this application. Applicant also requests that an initialed copy of FORM PTO/SB/08A/B be entered in the application file and returned to applicant with the next communication from the Office in accordance with MPEP § 609.

Applicant's undersigned attorney hereby certifies, in accordance with 37 CFR § 1.97(e)(2), that no item of information contained in the information disclosure statement was

**Application No. 10/020,506**

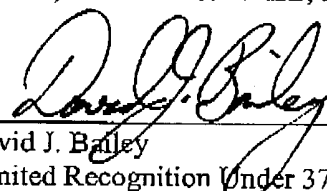
cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in Section 1.56(c) more than three months prior to the filing of the information disclosure statement.

The Commissioner is hereby authorized to charge any fees which may be required by this paper to Deposit Account No. 03-1728. Please show our docket number with any Deposit Account transaction. **A copy of this paper is enclosed.**

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

By

  
David J. Bailey  
Limited Recognition Under 37 CFR § 10.9(b)  
626/795-9900

DJB/syb

Enclosures: Form PTO/SB/08A/B, w/references

SYB IRV1079605.1-\*08/19/04 2:12 PM

FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B  <b>INFORMATION DISCLOSURE</b>  <b>STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Attorney Docket Number</b>	47490/DJB/S968
	Application Number	10/020,506
	Filing Date	December 11, 2001
	Applicant(s)	Kalu K. Vasoya, et al.
	Group Art Unit	1775
	Examiner Name	Ling X. Xu

U.S. PATENT DOCUMENTS				
EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - Kind Code <sup>2</sup> (If Known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
		5,004,639	04-02-1991	Desai

FOREIGN PATENT DOCUMENTS					
EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>5</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>4</sup> (✓)
		EP-0313961-A2	05-03-1989	Rogers Corporation	
		WO-95/02505-A1	01-26-1995	Chomerics, Inc.	
		WO-97/17199-A1	05-15-1997	Moderne Maschinen-Apparate- Werkzeuge AG	

OTHER DOCUMENTS		
EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Supplemental European Search Report dated 30 April 2004 from corresponding European Application No. EP 01 99 0176, filed December 11, 2001
		Translation of WO-97/17199-A1

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EXAMINER SIGNATURE	DATE CONSIDERED
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